

**AUTOMATICALLY REORDERING VARIABLES AS A PART OF COMPILING  
AND LINKING SOURCE CODE**

**ABSTRACT OF THE INVENTION**

5           Methods and Systems for automatically reordering variables as a part  
of compiling and linking source code. In one embodiment, a compiler  
identifies a set of variables that are candidates for reordering. The candidate  
variables are associated with one or more source code files that are being  
compiled. The compiler collects data used for determining a potential layout  
10 of the candidate variables. The linker determines the potential layout based,  
at least in part, on the data and reorders the candidate variables based, at  
least in part, on the potential layout.